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A LIST OF BIRDS COLLECTED BY COL. N. S. GOSS IN MEXICO AND CENTRAL AMERICA.

FROM THE COLLECTOR'S NOTES; COMPILED BY D. E. LANTZ, MANHATTAN.

Read before the Academy October 27, 1897.

Colonel Goss made several trips to Mexico and Central America in search of birds. This was in pursuance of his ambition to have his collection contain representatives of every species of North American birds. In December, 1882, he visited Guatemala, and remained in that country for two or three months. He entered the state from the southern coast, at San José, and collected mostly near that town and at Palin, Naranjo, and Amatitlan.

In November and December, 1883, he visited Mexico, collecting mainly at Lerdo and Florido. He also visited Lower California during the following spring.

In December, 1885, he again visited Guatemala, landing at Santa Tomas, on the northeast coast, and collecting for several weeks on the Chocan river at Puerto Barrios and at Santa Tomas. In February, 1886, he made his way northward to Belize, in British Honduras, and spent a short time collecting in that vicinity.

In the early months of 1887, Colonel Goss made a second trip to the Gulf of Honduras, staying for a short time at Puerto Cortez, and collecting mostly at Chaloma, in Spanish Honduras. He then again made his way westward to British Honduras in February, when he collected at Cayo. From this point, guided by Indians, he made a short but laborious trip into the mountains of Guatemala to Yaxa, where he secured the pair of ocellated turkeys which he prized so highly.

In November, 1887, he visited Mexico, on the west coast, collecting at Altata, Limoncito, Rinconada, Culiacan, La Paz, and at San Pedro Martir island, in the Gulf of California. He extended his stay well into the following March. On this trip he succeeded in capturing two apparently new species of boobies: *Sula brewsteri* and *Sula gossii*. (The latter was later shown to be identical with *Sula nebouxii* Milne-Edwards.)

In January, 1889, another visit to Mexico was extended into the southern part. He collected mainly at Coatepec. It was on his return from this trip, while in the City of Mexico, that the colonel was robbed of his collecting gun and the valuable notes which he had made.

His last southern trip was made in December, 1889, and lasted for several weeks. He visited Granada and Los Sabalos, in Nicaragua, and the San Juan valley, in northern Costa Rica.

A detailed list of the species secured, with localities, follows:

1. *Tinamus robustus* Scl. and Salv. Male and female. Santa Tomas, Guat.
2. *Crypturus sallaei* Bonap. 1 male. Naranjo, Guat.
3. *Crypturus sallaei* (nob.) 1 male. Coatepec, Mex.
4. *Phaeton althereus* Linn. 2 males, 1 female. San Pedro Martir Isle, Gulf of Cal.
5. *Sula nebouxii* Milne-Edwards. Male and female, and 2 eggs. San Pedro Martir Isle, Gulf of Cal.
6. *Sula sula* (Linn.) Male and female. Belize, Br. Hond.
7. *Sula brewsteri* Goss. Male and female. San Pedro Martir Isle, Gulf of Cal.
8. *Phalacrocorax pencillatus* Brandt. 4 specimens. La Paz, Lower Cal.
9. *Fregata aquila* (Linn.) 1 male, 2 females. Belize, Br. Hond.
10. *Carina moschata* (Linn.) 1 female. Naranjo, Guat.

11. *Heliornis fulica* Bodd. 2 males. Puerto Barrios, Guat., and Los Sabalos, Nic.
12. *Ajaja ajaja* (Linn.) 3 specimens. San Jose, Guat.
13. *Guara alba* Linn. Male and female. San Jose, Guat.
14. *Eurypyga major* Hartl. 1 male. Santa Tomas, Guat.
15. *Cochlearius zelandi* Ridgw. Pair. San Jose, Guat.
16. *Ardea carulea* Linn. 2 males. San Jose, Guat.
17. *Ardea virescens frazeri* Brewst. Pair. La Paz, Lower Cal.
18. *Aramus giganteus* (Bonap.) 1 female. Belize, Br. Hond.
19. *Rallus beldingi* Ridgw. Pair. La Paz, Lower Cal.
20. *Arimidis albiventris*. 1 male. San Jose, Guat.
21. *Porzana leucogastra* Ridgw. 1 male. San Juan Valley, Costa Rica.
22. *Jacana spinosa* (Linn.) 3 specimens. Belize, Br. Hond., and Chaloma, Sp. Hond.
23. *Colinus pectoralis*. Pair. Coatepec, Mex.
24. *Callipepla elegans bensoni* Ridgw. Pair. Culiacan and Limoncito, Mex.
25. *Meleagris ocellata*. Pair. Yaxa, Guat., Mar. 1887.
26. *Ortalida leucogastra*. Pair. Naranjo, Guat.
27. *Ortalis wagleri* Gray. 1 female. Limoncito, Mex.
28. *Ortalis velula maccalli* Baird. 3 specimens. Chaloma, Sp. Hond., and Rinconada, Mex.
29. *Penelope cristata* (Linn.) Pair. Naranjo and Santa Tomas, Guat.
30. *Crax globicera* Linn. Pair. Naranjo and Santa Tomas, Guat.
31. *Columba rufina* (Temm.) 1 male. San Juan Valley, Costa Rica.
32. *Columba flavirostris* Wagl. Pair. Naranjo, Guat.
33. *Zenaidura macroura* (Linn.) 1 male. San Pedro Martir Isle.
34. *Leptoptila albifrons* (Bonap.) Pair. Amatitlan and San Jose, Guat.
35. *Melopelia leucoptera* (Linn.) Pair. Culiacan, Mex.
36. *Columbogallina passerina* (Linn.) Pair. Amatitlan, Guat.
37. *Columbogallina passerina pallascens* Baird. 2 males. La Paz, Lower Cal.
38. *Scardafella inca* (Less.) Pair. San Jose, Guat.
39. *Geotrygon albifacies*. Pair. Coatepec, Mex.
40. *Gypagus papa* Linn. 1 female. Naranjo, Guat.
41. *Granospiza caerulea nigræ* (DuBois.) 1 male. Rinconada, Mex.
42. *Rupornis griseocauda* Ridgw. Pair. Chocan River, Guat., and Cayo, Br. Hond.
43. *Spizaetus ornatus* (Daud.) 1 male. Chocan River, Guat.
44. *Urbitinga onthracina* (Licht.) 1 male. Chaloma, Sp. Hond.
45. *Accipiter bicolor* Vieill. 1 male. Naranjo, Guat.
46. *Asturina plagiata* Schlegel. 3 specimens. Naranjo, Guat.
47. *Herpetotheres cachinnans* (Linn.) Pair. Naranjo, Guat.
48. *Falco albicularis* Daud. Pair. Esquintla and Santa Tomas, Guat.
49. *Falco richardsonii* Ridgw. Pair. Lower California.
50. *Ibycter americanus* (Bodd.) Pair. Naranjo, Guat.
51. *Polyborus cheriway* Jacq. 4 specimens. La Paz, Lower Cal.
52. *Pulsatrix torquata* (Daud.) 1 female. Puerto Barrios, Guat.
53. *Syrnium virgatum* Cass. 1 male. Cayo, Br. Hond.
54. *Glaucidium phalaenoides* (Daud.) 1 male. Naranjo, Guat.
55. *Ara macao* (Linn.) 3 specimens. Naranjo, Guat.
56. *Ara militaris* (Linn.) Pair. Limoncito, Mex.
57. *Conurus petzii* (Seibl.) 5 specimens. Naranjo, Guat., and Limoncito, Mex.
58. *Conurus holochlorus*. 1 female. Rinconada, Mex.

59. *Conurus aztec* Souance. Pair. Rinconada, Mex.
60. *Chrysotis auropalliata* (Less.) Pair. Naranjo, Guat.
61. *Chrysotis albifrons* (Sparr.) 2 males. Naranjo, Guat.
62. *Chrysotis albifrons* (var.) Pair. Chaloma, Sp. Hond.
63. *Amazona oratrix*. 1 female. Rinconada, Mex.
64. *Amazona autumnalis*. Pair. Santa Tomas, Guat.
65. *Pionus senilus* (Spix.) Pair. Santa Tomas, Guat.
66. *Caica hæmatotis* Sc. and Salv. 3 specimens. Chocan River and Santa Tomas, Guat.; Cayo, B. Hond.
67. *Psittacula cyanopygia* Sonance. Pair. Limoncito, Mex.
68. *Pteroglossus torquatus* Gmel. 3 specimens. Naranjo, Guat.
69. *Rhamphastus ariel*. Pair. Santa Tomas, Guat.
70. *Aulacorhamphus prassinus* Licht. 3 specimens. Puerto Cortez, Sp. Hond., and Coatepec, Mex.
71. *Crotophaga sulcirostris* Swains. Pair. Naranjo, Guat.
72. *Piaya cayana* Less. Pair. Naranjo, Guat.
73. *Geococcyx affinis* Hartl. 1 female. Amatitlan, Guat.
74. *Bucco dysoni* ScL. 2 females. Naranjo and Chocan River, Guat.
75. *Galbula melanogenia* ScL. 3 specimens. Chaloma, Sp. Hond.
76. *Trogon puella* Gould. 1 male. Coatepec, Mex.
77. *Trogon atricollis* Vieill. 1 female. San Juan Valley, Costa Rica.
78. *Trogon melanocephalus* Gould. Pair. Santa Tomas, Guat., and Rinconada, Mex.
79. *Trogon caligatus* Gould. Pair. Naranjo, Guat.
80. *Ceryle americana septentrionalis* (Sharpe). 3 specimens. Palin, San José, and Amatitlan, Guat.
81. *Ceryle torquata* (Linn.) Pair. Granada, Nic.
82. *Ceryle amazona* Lath. 2 males. Naranjo and Chocan River, Guat.
83. *Ceryle superciliosa* (Linn.) Pair. San Jose, Guat.
84. *Momotus lessoni* Less. 4 specimens. Naranjo and Santa Tomas, Guat.
85. *Momotus cæruleiceps* Gould. 1 female. Rinconada, Mex.
86. *Eumomote supercilialis* Jard. and Selby. 3 specimens. Naranjo, Guat., and Granada, Nic.
87. *Campephilus guatemalensis* Hartl. 1 male, 3 females. Naranjo, Chaloma, and San Juan Valley.
88. *Dryobates scalaris bairdi* ScL. 4 specimens. Florido, Mex.
89. *Dryobates scalaris lucasani* (Xantus.) Pair. La Paz.
90. *Dryobates scalaris sinaloensis* Ridgw. 1 female. Altata, Mex.
91. *Ceophloeus scapularis* (Vig.) Pair. Santa Tomas, Guat., and San Juan Valley, Costa Rica.
92. *Chloronerpes cabatti* (Mahl.) 1 male. Cayo, Br. Hond.
93. *Centurus santeruzzi*. Pair. Palin and Maranjo, Guat.
94. *Centurus santicruzi paupera* Ridgw. 1 male. Chaloma, Sp. Hond.
95. *Melanerpes formicivorus* Sw. 1 male, 1 female. Chaloma, Hond., and Coatepec, Mex.
96. *Melanerpes aurifrons hoffmanni* Cab. Pair. Granada, Nic.
97. *Melanerpes uropygialis* Baird. Pair. Altata, Mex.
98. *Colaptes chrysoides* (Malh.) 1 male. Culiacan, Mex.
99. *Celeus castaneus* Wagl. 1 female. Chaloma, Sp. Hond.
100. *Nyctidromus albigollis merrilli* (Senn.) 2 specimens. Naranjo and Santa Tomas, Guat.
101. *Eugenes fulgens* Swains. 2 males, 1 female. Coatepec, Mex.
102. *Heliothrix barroti* Bourc. 1 male. Cayo, Br. Hond.

103. *Chlorostilbon caniveti* Less. 1 male. Coatepec, Mex.
104. *Lampornis prevosti* Less. 2 specimens. Isabella, Br. Hond., and Granada, Nic.
105. *Lampornis violacauda*. 1 male. Granada, Nic.
106. *Uranomitra quadricolor*. 1 male. Culiacan, Mex.
107. *Uranomitra cyanocephala*. 3 specimens. Coatepec, Mex.
108. *Agyrtria candida* Bourc. 1 female. Cayo, Br. Hond.
109. *Trochilus alexandri* Bourc. 1 female. Culiacan, Mex.
110. *Amazilia cinnamonea* Less. 1 male. Granada, Mex.
111. *Amazilia fuscicaudata* (Fraser.) Pair. Santa Tomas, Guat.
112. *Floricola constanti* Delattrei. 1 female. Amatitlan, Guat.
113. *Floricola delattrei*. 1 male. Granada, Nic.
114. *Phaethornus longirostris* Less. 2 males. Cayo, Br. Hond.
115. *Sphenoproctus curvipennis* Licht. 1 male. Coatepec, Mex.
116. *Campylopterus hemileucurus* Licht. 1 female. Coatepec, Mex.
117. *Phæochroa roberti* Salv. 1 male. Cayo, Br. Hond.
118. *Thamnophilus doliatus* (Linn.) 3 specimens. Naranjo, Guat., and Granada, Nic.
119. *Thamnophilus doliatus* var. 1 female. Santa Tomas, Guat.
120. *Ramphocænus rufiventris* Bp. 1 female. Cayo, Br. Hond.
121. *Hypocnemus nævoides* Lafr. 1 female. San Juan Valley, Costa Rica.
122. *Pithys bicolor* Lawr. 1 female. Chaloma, Sp. Hond.
123. *Formicarius monileger* ScL. 1 female. Cayo, Br. Hond.
124. *Drymophila trifasciata* Swain. 3 males, 1 female. Santa Tomas and Las Sabalos, Guat.
125. *Xenops genibarbis* Lafr. 1 female. Santa Tomas, Guat.
126. *Sclerurus guatemalensis* Hartl. 1 female. Chaloma, Sp. Hond.
127. *Synallaxis pudica* ScL. 1 male. San Juan Valley, Costa Rica.
128. *Synallaxis erythrothorax* ScL. Pair. Naranjo, Guat.
129. *Sittasomus olivaceus*. Pair. Naranjo, Guat.
130. *Glyphorhynchus cuneatus* Licht. Pair. Coatepec, Mex.
131. *Dendroornis eburneisastris*. 1 male, 1 female. Chocan River, Guat., and Chaloma, Sp. Hond.
132. *Dendroornis lawrencei costaricensis* Rdgw. 1 male, 1 female. San Juan Valley, Costa Rica, and Santa Tomas, Guat.
133. *Dendromanes homochrous*. 1 male. Naranjo, Guat.
134. *Picolaptes compressus*. 1 male. Naranjo, Guat.
135. *Antilophia galeata*. Pair. Santa Tomas, Guat.
136. *Chiroxiphia linearis* Bonap. 3 females. Naranjo, Guat.
137. *Manacus caudei*. 2 males, 1 female. Santa Tomas, Guat., and Chaloma, Sp. Hond.
138. *Heteropelma veræpaci* ScL. 1 male. Chaloma, Sp. Hond.
139. *Titrya semifasciata* (Spix.) Pair. Naranjo, Guat.
140. *Hadrostomus aglaie* Lafr. 2 females. Limoncito and Coatepec, Mex.
141. *Hadrostomus albiventris* Lawr. 1 male. Naranjo, Guat.
142. *Attila citreopygia* Bonap. 1 male, Naranjo, Guat.
143. *Tyrannus melancholicus couchii* Baird. 1 male. Palin, Guat.
144. *Tyrannus crassirostris* Sw. 1 male. Culiacan, Mex.
145. *Pitangus derbianus* (Kaup.) 4 specimens. Amatitlan and Chocan River, Guat., and Altata, Mex.
146. *Megarhynchus pitangua* (Linn.) 3 specimens. Naranjo, Guat., and Chaloma, Sp. Hond.

147. *Myiozetetus texensis* (Giraud.) 4 specimens. Palin and Santa Tomas, Guat., and Sabalos, Nic.
148. *Myiarchus nuttingi* Ridgw. 1 male. Culiacan, Mex.
149. *Myiarchus lawrenceii* (Giraud). Pair. Palin and Naranjo, Guat.
150. *Myiarchus lawrenceii olivaceus*. Ridgw. Pair. Altata, Mex.
151. *Oncostoma cinereigulare* Scl. 1 male. Cayo, Br. Hond.
152. *Todirostrum cinereum* (Linn.) Pair. Naranjo, Guat.
153. *Sayornis saya* Bonap. 2 males. Lerdo and Florido, Mex.
154. *Contopus pertinax* Cab. 1 female. Limoncito, Mex.
155. *Muscivora mexicana* Scl. 1 male. Santa Tomas, Guat.
156. *Myiobius sulphureipygius* Scl. 1 female. Cayo, Br. Hond.
157. *Pyrocephalus rubineus mexicanus* Scl. 4 specimens. Florido and Altata, Mex.
158. *Otocoris alpestris chrysolæma* (Wagl.) Pair. Florido, Mex.
159. *Cyanocitta stellari coronata* (Swain.) Pair. Coatepec, Mex.
160. *Aphelocoma unicolor* Du Bús. Pair. Coatepec. Mex.
161. *Aphelocoma californica hypoleuca* Ridgw. Pair. La Paz, Lower Cal.
162. *Xanthoura luxuosa* (Less.) Pair. Naranjo, Guat., and Coatepec, Mex.
163. *Xanthoura luxuosa cyanocapillo* Cab. Pair. Santa Tomas, Guat.
164. *Cyanolyca beecheyi* Vig. Pair. Culiacan, Mex.
165. *Cyanolyca melanocyana* Hartl. 2 specimens. Palin and Amatitlan, Guat.
166. *Cyanolyca ornata* Less. Pair. Coatepec, Mex.
167. *Psilorhinus mario* Wagl. Pair. Rinconada, Mex.
168. *Psilorhinus mexicanus* Rüpp. Pair. Santa Tomas, Guat.
169. *Psilorhinus cyanogenys* Sharpe. 1 male. Rinconada, Mex.
170. *Calocitta calliei* Vig. Pair. Culiacan, Mex.
171. *Calocitta formosa* Swain. Pair. Naranjo, Guat.
172. *Corvus mexicanus* Gmel. 1 male. Altata, Mex.
173. *Eucorystes wagleri* Gray. 1 male. Chocan River, Guat.
174. *Gymnostinops montezumæ* Less. Pair. Santa Tomas, Guat.
175. *Cassiculus melanicterus* Bonap. 2 males. Culiacan and Limoncito, Mex.
176. *Cassicus prevosti*. 2 males, 1 female. Naranjo and Santa Tomas, Guat.
177. *Collothens robustus* Cab. 1 male. Coatepec, Mex.
178. *Sturnella magna neglecta* (Aud.) 1 female. Altata, Mex.
179. *Icterus melanocephalus* Wagl. Pair. Santa Tomas, Guat.
180. *Icterus audibonii* Giraud. Pair. Coatepec, Mex.
181. *Icterus cucullatus* Swains. Pair. Limoncito, Mex.
182. *Icterus pectoralis* Wagl. 1 male. Palin, Guat.
183. *Icterus gularis* Wagl. 1 male. Amatitlan, Guat.
184. *Icterus gularis flammeus*. Pair. Rinconada, Mex.
185. *Icterus sclateri* Cass. 3 males, 1 female. Altata and Culiacan, Mex.
186. *Coccothraustes abeillei* Less. 1 male. Coatepec, Mex.
187. *Carpodacus mexicanus ruberrimus* Ridgw. Pair. La Paz, Lower Cal.
188. *Spinus psaltria arizonæ* (Coues). 1 juv. male. Florido, Mex.
189. *Poocætes gramineus confinis* Baird. 1 male. Florido, Mex.
190. *Spizella socialis arizonæ* Coues. Pair. Florido, Mex.
191. *Arremonops chloronota* Salv. Pair. Cayo, Br. Hond.
192. *Hæmophila rufescens* Sw. 1 female. Coatepec, Mex.
193. *Hæmophila ruficauda* Bonap. 1 male. Granada, Nic.
194. *Amphispiza bilineata* (Cass.) Pair. Lerdo and Florido, Mex.
195. *Volitinia splendens* Vieill. 1 male. Naranjo, Guat.
196. *Pipilo chlorurus* (Townsend.) 2 males, 1 female. Florido, Altata, and La Paz.

197. *Cardinalis cardinalis igneus* (Baird.) Pair. Limoncito and Altata, Mex.
198. *Pyrrhuloxia sinuata* Bonap. Pair. Florido, Mex.
199. *Guiraca caerulea* (Linn.) 1 juv. male. Amatitlan, Guat.
200. *Pheucticus chrysopheplus* Vig. 2 males. Culiacan, Mex.
201. *Passerina ciris* (Linn.) Pair. Naranjo, Guat.
202. *Sporophila moreletti sharpei* Lawr. 3 specimens.
203. *Sporophila corvina* ScL. 2 males, 1 female. Chocan River, Guat., and San Juan Valley, Costa Rica.
204. *Euphonia elegantissima* Bonap. 1 male. Coatepec, Mex.
205. *Euphonia affinis* Less. 1 male. Belize, Br. Hond.
206. *Euphonia hirundinacea* Bonap. Pair. Belize, Rinconada, Mex.
207. *Euphonia hirundinacea* (Nob.) 1 male. Rinconada, Mex.
208. *Euphonia gouldi* ScL. Pair. Santa Tomas, Guat.
209. *Calliste lavinia* Cass. 1 male. Santa Tomas, Guat.
210. *Tanagra cana* Swain. 1 male. Palin, Guat.
211. *Tanagra abbas* Licht. 3 males. Santa Tomas, Cayo, and Coatepec.
212. *Rhamphocelus passerinii* Bonap. 2 males, 2 females. Santa Tomas, Cayo, and Los Sabalos.
213. *Phlogothraupis sanguinolenta* Licht. 1 male. Coatepec, Mex.
214. *Piranga erythromelena* Licht. 1 male. Coatepec, Mex.
215. *Phœnicothraupis rubicoides* Lafr. Pair. Coatepec, Mex.
216. *Phœnicothraupis fuscicauda* Cab. Pair. Naranjo, Guat.
217. *Phœnicothraupis salvini* Berl. Pair. Santa Tomas.
218. *Eucometis spodocephala* Bonap. 1 male, 1 female. Santa Tomas, Guat., Granada, Nic.
219. *Arremon aurantirostris* Lafr. Pair. San Juan Valley, Costa Rica.
220. *Saltator atriceps* Less. 2 males, 1 female. Cayo, Br. Hond., and Granada, Nic.
221. *Saltator grandis* Licht. Male and female. Naranjo, Guat., and Cayo, Br. Hond.
222. *Saltator plumbeiceps* Lawr. 2 females. Limoncito, Mex.
223. *Pitylus poliogaster* Du Bus. 1 female. Santa Tomas, Guat.
224. *Cyclorhis flaviventris* Lafr. 1 male. Coatepec, Mex.
225. *Capsiempis flavicola* Licht. 1 male. San Juan, Costa Rica.
226. *Vireo bellii pusillus* (Coues.) 1 female. La Paz, Lower Cal.
227. *Diglossa baritula* Wagl. Pair. Coatepec, Mex.
228. *Cœreba cyanea* (Linn.) 1 female. Naranjo, Guat.
229. *Certhiola mexicana* ScL. Pair. Cayo, Br. Hond.
230. *Helmitherus vermivorus* (Gmel.) Pair. Naranjo, Guat.
231. *Dendroica bryanti castaniceps* Ridgw. 1 male. San Jose, Guat.
232. *Dendroica maculosa* Gmel. 1 male. Cayo, Br. Hond.
233. *Seiurus noveboracensis notabilis* (Grin.) Pair. San Jose and Santa Tomas, Guat.
234. *Geothlypis macgillivrayi* (Aud.) 1 male. Altata, Mex.
235. *Geothlypis palpebralis* Ridgw. 1 male. San Juan Valley, Costa Rica.
236. *Basileuteris delattrei* Bonap. 1 male. Near Granada, Nic.
237. *Setophaga miniata* (Swains.) 1 male. Coatepec, Mex.
238. *Harporhynchus curvirostris* Swains. 1 male. Florido, Mex.
239. *Harporhynchus curvirostris occidentalis* Ridgw. Pair. Altata and Culiacan, Mex.
240. *Harporhynchus cinereus* (Gamb.) 1 male. La Paz, Lower Cal.
241. *Harporhynchus crissalis* (Henry.) 1 male. Florido, Mex.
242. *Campylorhynchus brunnicapillus* Lafr. Pair. Florido, Mex.

243. *Campylorhynchus affinis* Xantus. Pair. La Paz.
244. *Campylorhynchus zonatus* (Less.) Pair. Rinconada, Mex.
245. *Campylorhynchus capistratus* (Less.) Pair. Naranjo, Guat.
246. *Campylorhynchus rufinucha* (Lafr.) Pair. Rinconada, Mex.
247. *Cyphorinus lawrencei* Lawr. 1 male. San Juan Valley, Costa Rica.
248. *Heterorhina leucosticte* (Cab.) 1 male. San Juan Valley, Costa Rica.
249. *Heterorhina pusilla* Scl. 1 female. Rinconada, Mex.
250. *Thryophilus costaricensis* Sharpe. 1 male. San Juan Valley, Costa Rica.
251. *Thryophilus pleurostictus* Scl. 1 male. Granada, Nic.
252. *Tryothorus maculispactus* Lafr. 1 male. Naranjo, Guat.
253. *Auriparus flaviceps* (Sund.) 1 male, 2 females. Florido and Altata.
254. *Turdus assimilis* Cab. 1 female. Coatepec, Mex.
255. *Merula tristis* Swain. 1 male. Santa Tomas, Guat.
256. *Merula grayi* Bonap. 2 males, 1 female. Naranjo, Guat., Coatepec, Mex., Granada, Nic.

A REVIEW OF KANSAS ORNITHOLOGY.

BY D. E. LANTZ, MANHATTAN, KAN.

Read before the Academy October 28, 1897.

I. The Bibliography of Kansas Birds.

The following list of publications embraces books and articles containing references to birds found in the state and ornithological articles written by Kansas authors. But few references to fossil forms are included. I have been unable to find complete files of *Forest and Stream*; hence there are probably some omissions of articles from that journal. A number of amateur ornithological publications have not been examined for Kansas materials. With these exceptions, I believe that the list is nearly complete.

The order of arrangement is chronological, showing the gradual development of our knowledge of Kansas birds. Implied references and common names which do not clearly identify the species are not considered as additions to the avifauna of the state.

It is to be regretted that so many of the early explorers of our western country touched only on the eastern border of the state, and gave so meager an account of our birds. Nebraska and Missouri were much more fortunate in this respect, since the Missouri and the Platte rivers became a sort of highway for exploring expeditions and travelers.

The work of compiling the bibliographical references was made more difficult because of the scarcity of materials in our various Kansas libraries to which I might refer. The libraries of the Academy of Science, the State Historical Society, the Agricultural College and the State Library were freely consulted, and I had advice and assistance from Dr. Elliott Coues, of Washington, D. C., and Dr. J. A. Allen, of New York.

1810. PIKE, MAJOR Z. M. An Account of an Expedition to the Sources of the Mississippi and through the western parts of Louisiana, to the Sources of the Arkansas, Kansas, La Platte and Pierre Jaune rivers; performed by order of the government of the United States during the years 1805, 1806, and 1807. And a tour through the interior parts of New Spain, when conducted through these provinces by order of the captain-general, in the year 1807. By Major Z. M.